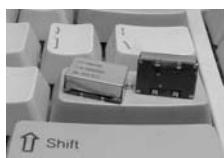
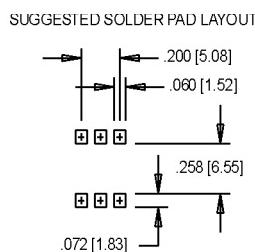
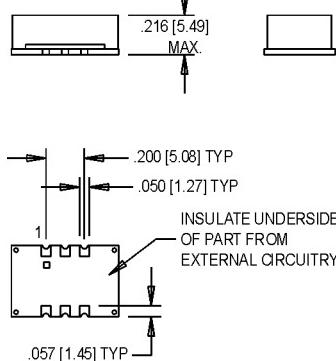
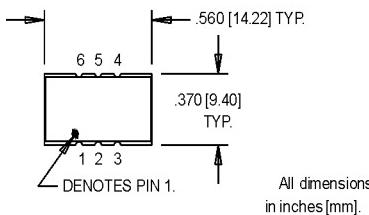


F17250B/F17350B & F17255B/F17355B Series

9x14 mm FR-4, 5.0 or 3.3 Volt, PECL, VCXO



- Former **Champion** Product
- Clock Recovery, PLL, Optic Transmission Equipment, Digital Cross Connect Equipment



Enable/Disable Control

Pin 1	Outputs	
	Pin 4	Pin 5
"0" Enables	Active	Active
"1" Disables	Low	High

Pin Connections

PIN	FUNCTION
1	Control Voltage
2	Enable/Disable
3	Vss/Ground
4	Output
5	Output
6	+Vcc

Electrical Specifications

PARAMETER	Symbol	Min.	Typ.	Max.	Units	Condition/Notes
Frequency Range	F	75		180	MHz	
Operating Temperature	T _A	(See Ordering Information)				
Storage Temperature	T _s	-45		+125	°C	
Frequency Stability Overall	ΔF/F					Inclusive of Calibration, Temperature, Voltage, Load, and Aging
0°C to +70°C				±30	ppm	
-40°C to +85°C				±50	ppm	
Aging						
1st Year		-4		+4	ppm	
10 Year		-10		+10	ppm	
Pullability/APR		±80		±140	ppm	75 to 156 MHz
		±60		±140	ppm	156.1 to 180 MHz
Control Voltage	V _c	0.5	2.5	4.5	V	F17250B & F17255B
		0.3	1.65	3.0	V	F17350B & F17355B
Linearity				10	%	Positive Monotonic Slope
Modulation Bandwidth	f _m	10			kHz	±3dB
Input Impedance	Z _{in}	50k			Ohms	@ 10 kHz
Input Voltage	V _{cc}	4.75	5.0	5.25	V	F17250B & F17255B
		3.135	3.3	3.465	V	F17350B & F17355B
Input Current	I _{cc}			70	mA	
Output Type						PECL
Load						See Note 1
Symmetry (Duty Cycle)		45		55	%	V _{cc} - 1.3 VDC
Output Skew				50	ps	
Logic "1" Level	V _{oh}	V _{cc} - 1.1		V _{cc} - 0.88	V	50Ω into V _{cc} - 2
Logic "0" Level	V _{ol}	V _{cc} - 1.95		V _{cc} - 1.55	V	50Ω into V _{cc} - 2
Rise Time	T _r			450	ps	50Ω into 20% to 80%
Fall Time	T _f			450	ps	50Ω into 80% to 20%
Enable Function		PECL low: output active PECL high: output disables				
Start up Time				10	ms	
Phase Jitter @ 155.52 MHz	φ _J			1	ps RMS	Integrated 12 kHz - 20 MHz
Phase Noise (Typical) @ 155.52 MHz	10 Hz -40	100 Hz -70	1 kHz -100	10 kHz -120	100 kHz -140	Offset from carrier dBc/Hz

1. PECL load - see load circuit diagram #5

MtronPTI reserves the right to make changes to the product(s) and service(s) described herein without notice. No liability is assumed as a result of their use or application.

Please see www.mtronpti.com for our complete offering and detailed datasheets. Contact us for your application specific requirements: MtronPTI 1-800-762-8800.